

## Description

# SOLAR PROTECTOR FOR VEHICLE

### BACKGROUND OF INVENTION

[0001] Solar protectors for vehicle windshields present an obvious inconvenience, because of a plate that does not cover the totality of vehicle windshields. The invention is directed to a protector, which covers the totality of the windshield surface from the roof of the vehicle and also covers the totality of the front lateral windows.

[0002] United States Patent No. 5,915,399 discloses a multipurpose cover for a vehicle mainly including a roof sunshade for covering the roof of the vehicle. There are four screen-like knitting fabrics for separately covering the windshield, the rear window, and side windows of the vehicle. Four side sunshades cover a front, a rear, and two side parts of vehicle, and four roll-up sunshades for covering the four screen-like knitting fabrics. These sunshades or fabrics are sewed together to form a complete cover for vehicle. The roll-up sunshades are provided at their two lateral sides with zippers and at lower edges with hooks con-

nected to the roll-up sunshades by means of elastic bands. Two of the screen-like knitting fabrics covering two sides of the vehicle and their corresponding side sunshades have a vertical split at their middle portion. Zippers are sewed to these splits to facilitate opening of doors via the splits. The cover for car serves to block sunlight and snow, and keep out mosquitoes and flies.

[0003] United States Patent No. 4,476,302 refers to a rain and sun cover for a vehicle that is attached at one end to a roller, and at the other end to the vehicle door. When the door is opened the cover will unroll and provides a sheltered area so a person may close an umbrella and enter the vehicle without getting wet.

[0004] The upper and lower lateral sections are situated towards the interior of the front lateral doors. The solar protectors for vehicles previously mentioned, while meeting the objective for which they were manufactured, present some disadvantages, such as the complexity in installing them, removing them, due to their structural characteristics as well as due to their size. These solar protectors must regularly remain in place permanently or for prolonged periods of time. Some do not cover the vehicle's lateral windows and when installed they do not cover the totality of

the vehicle's windshield.

- [0005] These systems are not as user friendly and as convenient as possible. The invention seeks to overcome the limitations of the prior art.

#### **SUMMARY OF INVENTION**

- [0006] The vehicle protector of the invention is formed by a principal laminated body preferably manufactured in cloth. The underside presents a painted surface that repels the sun, and the body covers the body part of the roof and the frontal surface of the vehicle's windshield. Likewise, in the upper area of lesser diameter, there are lateral sections that are foldable and which rejoined vertically with a velcro type closure to other sections that extend at the lower area of greater diameter of the principal laminated body. This allows the covering of front lateral windows of the vehicle.
- [0007] As such, the central and principal piece is located over the roof of the vehicle and extends toward the frontal area over and within the windshield.
- [0008] In order to solve the existing inconvenience of present solar vehicle protectors, the invention provides a solar protector or cover, taking into account the ease with which the user can place the protector. At the same time the ve-

hicle's protection is improved against sun and also climate changes, such as snow fall or frost that occur in countries or regions with cold climates.

[0009] In order to better understand the characteristics of the new vehicle protector, the protector is described in accordance to the drawings that form an integral part of the invention, wherein:

#### **BRIEF DESCRIPTION OF DRAWINGS**

[0010] FIG. 1 shows an upper plain view of the protector.

[0011] FIG. 2 shows an obverse view of the protector, reflecting the safety belt and its upper and lower flaps with the latching system, which can be made with velcro or any other latching or closing system or zipper.

[0012] FIG. 3 shows a perspective view of the protector.

[0013] FIG. 4 shows a perspective view of the vehicle with the protector placed on the vehicle.

#### **DETAILED DESCRIPTION**

[0014] As can be seen from Figures 1 to 5, the present invention includes a protector to cover part of the roof, the windshield and the lateral windows of a vehicle. A covering preferably is made sun resistant cloth, with a principal body (1) that covers part of the roof (2) and the wind-

shield (3) of the vehicle. The lateral sections (4) start at the lateral ends of the upper area which are of a lesser diameter than the principal body (1).

[0015] Likewise, at the area of greater diameter, more specifically at the lower vertex, curved sections (5) extend therefrom. These are joined vertically and laterally by means of velcro or other closures (6) with the upper lateral sections (4). A monolithic body is formed which permits the covering of the lateral windows (7) thereby avoiding the penetration of the sun's rays through the sides of the vehicle.

[0016] The vehicle protector also presents a safety belt or holder (8), which results in a tip-top system. The safety belt (8) is located on the reverse of the principal body (1). It can be installed inside and outside of the vehicle. This secures the totality of the covering and assists in the prevention of possible theft. Also the lateral ends can extend to the inside of a vehicle door, such that when the doors are closed there is a secure arrangement.

[0017] Although specific embodiments of the invention have been shown and described, it will be understood that various modifications may be made without departing from the spirit of this invention.